Filed : February 22, 2002

4

## **Amendments to the Claims:**

Claims 1-30, 37-42, 45, 46, 49-51, 56-72 and 75-77 are pending. Claims 32-36, 43, 44, 47, 48, 52-55, 74, 74 and 80-107 are cancelled without prejudice or disclaimer. Claims 1-7, 9, 11-18, 20, 21, 23-31, 39, 41, 45, 49-51, 56-58, 60-72 and 76 are amended. This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (Currently amended) A compound having the formula:

 $\Theta$ R

Filed: February 22, 2002

$$\begin{array}{c|c}
R^3 & R^4 \\
\hline
R^1 & W \\
\hline
R^{18} & N \\
\hline
R^8 & R^7 \\
\hline
(IV)
\end{array}$$

wherein:

4

 $R^1$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, NO<sub>2</sub>, OR<sup>9</sup>, NR<sup>10</sup>R<sup>11</sup>,  $S(O)_nR^9$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl;

 $R^2$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CF<sub>2</sub>OR<sup>9</sup>, CH<sub>2</sub>OR<sup>9</sup>, OR<sup>9</sup>, S(O)<sub>n</sub>R<sup>9</sup>, NR<sup>10</sup>R<sup>11</sup>, optionally substituted C<sub>1</sub> – C<sub>8</sub> alkyl, optionally substituted C<sub>1</sub> – C<sub>8</sub> haloalkyl, optionally substituted C<sub>1</sub> – C<sub>8</sub> heteroalkyl, optionally substituted arylalkyl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted C<sub>2</sub> – C<sub>8</sub> alkynyl and optionally substituted C<sub>2</sub> – C<sub>8</sub> alkenyl;

 $R^3$  and  $R^4$  each independently is selected from the group <u>consisting</u> of hydrogen,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$ ,  $C(Y)NR^{10}R^{11}$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl; or

R<sup>3</sup> and R<sup>4</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic or heterocyclic ring; or

R<sup>3</sup> and R<sup>5</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

R<sup>3</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

R<sup>3</sup> and R<sup>13</sup> taken together form a three to eight membered saturated or unsaturated heterocyclic ring;

Filed: February 22, 2002

•

 $R^5$  and  $R^6$  each independently is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl; or

R<sup>5</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

 ${
m R}^{
m 5}$  and  ${
m R}^{
m 13}$  taken together form a three to eight membered saturated or unsaturated heterocyclic ring; or

R<sup>6</sup> and R<sup>13</sup> taken together form a three to eight membered saturated or unsaturated heterocyclic ring;

 $R^7$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ;

 $R^8$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ;

 $R^9$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl and optionally substituted arylalkyl;

 $R^{10}$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted arylalkyl,  $CO_2R^{12}$ ,  $C(O)R^{12}$ ,  $SO_2R^{12}$  and  $S(O)R^{12}$ ;

 $R^{11}$  and  $R^{12}$  each independently is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl and optionally substituted arylalkyl;

 $R^{13}$  is selected from the group <u>consisting</u> of optionally substituted  $C_1-C_8$  alkyl, optionally substituted  $C_1-C_8$  haloalkyl, optionally substituted  $C_1-C_8$  heteroalkyl, optionally

Filed: February 22, 2002

4

substituted  $C_2 - C_8$  alkenyl, optionally substituted  $C_2 - C_8$  alkynyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl;

 $R^{16}$  is selected from the group of hydrogen, optionally substituted  $C_1$ — $C_8$  alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl, optionally substituted  $C_1$ — $C_8$  heteroalkyl,  $COR^{17}$ ,  $CO_2R^{17}$  and  $CONR^{12}R^{17}$ :

 $R^{17}$  is selected from the group of-hydrogen, optionally substituted  $C_1$ — $C_8$ -alkyl, optionally substituted  $C_1$ — $C_8$ -haloalkyl and  $C_1$ — $C_8$  heteroalkyl;

R<sup>18</sup> is selected from the group of hydrogen, F, Br, Cl, I, CN, C<sub>1</sub>—C<sub>8</sub> alkyl, optionally substituted C<sub>1</sub>—C<sub>8</sub> haloalkyl, , OR<sup>16</sup>, NR<sup>16</sup>R<sup>17</sup>, SR<sup>16</sup>, CH<sub>2</sub>R<sup>16</sup>, SOR<sup>17</sup> and SO<sub>2</sub>R<sup>17</sup>;

 $R^{19}$ -is selected from the group of hydrogen, optionally substituted  $C_1$ — $C_8$ -alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl, optionally substituted  $C_1$ — $C_8$  heteroalkyl, optionally substituted  $C_2$ — $C_8$ -alkenyl, optionally substituted  $C_2$ — $C_8$ -alkynyl, optionally substituted  $C_3$ — $C_8$ -cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl;

m is selected from the group <u>consisting</u> of 0, 1 and 2; n is selected from the group <u>consisting</u> of 0, 1 and 2;

V is selected from the group of O and S;

W is selected from the group consisting of  $\Theta$ ,  $S(O)_n$ , NH,  $N\{R^{13}\}$ ,  $N\{C(Y)R^{11}\}$  and  $N\{SO_2R^{11}\}$ ;

X and Z each independently is selected from the group <u>consisting</u> of O,  $\frac{S(O)_{n5}}{NH}$ , N{R<sup>11</sup>}, N{C(Y)R<sup>11</sup>}, N{SO<sub>2</sub>R<sup>12</sup>} and N{S(O)R<sup>12</sup>}; and

Y is selected from the group of O, S,  $N\{R^{19}\}$  and  $N\{OR^{19}\}$ ; and pharmaceutically acceptable salts thereof.

- 2. (Currently amended) A compound according to claim 1, wherein  $R^1$  is selected from the group consisting of hydrogen, F, Cl,  $OR^9$ ,  $NR^{10}R^{11}$ ,  $S(O)_nR^9$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 3. (Currently amended) A compound according to claim 2, wherein  $R^1$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.

4. (Currently amended) A compound according to claim 3, wherein  $R^1$  is selected from the group consisting of hydrogen, F and optionally substituted  $C_1 - C_4$  alkyl.

- 5. (Currently amended) A compound according to claim 1, wherein  $R^2$  is selected from the group consisting of hydrogen, F, Cl, Br, I, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CF<sub>2</sub>OR<sup>9</sup>, CH<sub>2</sub>OR<sup>9</sup>, OR<sup>9</sup>, S(O)<sub>n</sub>R<sup>9</sup>, optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted  $C_2 C_6$  alkynyl and optionally substituted  $C_2 C_6$  alkenyl.
- 6. (Currently amended) A compound according to claim 5, wherein  $R^2$  is selected from the group consisting of hydrogen, F, Cl, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  heteroalkyl.
- 7. (Currently amended) A compound according to claim 6, wherein  $R^2$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 C_2$  alkyl, optionally substituted  $C_1 C_2$  haloalkyl and optionally substituted  $C_1 C_2$  heteroalkyl.
  - 8. (Original) A compound according to claim 7, wherein R<sup>2</sup> is CF<sub>3</sub>.
  - 9. (Currently amended) A compound according to claim 1, wherein

 $R^3$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  haloalkyl, optionally substituted  $C_1 - C_6$  heteroalkyl,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ; or

R<sup>3</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring.

- 10. (Original) A compound according to claim 9, wherein R<sup>3</sup> and R<sup>6</sup> taken together form a four to six membered saturated or unsaturated carbocyclic ring.
- 11. (Currently amended) A compound according to claim 9, wherein  $R^3$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 12. (Currently amended) A compound according to claim 1, wherein  $R^6$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted  $C_2 C_6$  alkynyl and optionally substituted  $C_2 C_6$  alkenyl.

Filed: February 22, 2002

13. (Currently amended) A compound according to claim 12, wherein  $R^6$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_4$  alkyl, optionally substituted  $C_1 - C_4$  haloalkyl, optionally substituted  $C_1 - C_4$  heteroalkyl, optionally substituted  $C_2 - C_4$  alkynyl and optionally substituted  $C_2 - C_4$  alkenyl.

- 14. (Currently amended) A compound according to claim 13, wherein  $R^6$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  heteroalkyl.
- 15. (Currently amended) A compound according to claim 12, wherein R<sup>6</sup> is selected from the group consisting of optionally substituted aryl, optionally substituted arylalkyl and optionally substituted heteroaryl.
- 16. (Currently amended) A compound according to claim 1, wherein  $R^5$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted  $C_2 C_6$  alkynyl, optionally substituted  $C_2 C_6$  alkenyl.
- 17. (Currently amended) A compound according to claim 16, wherein  $R^5$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  heteroalkyl.
- 18. (Currently amended) A compound according to claim 17, wherein  $R^5$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  heteroalkyl.
  - 19. (Original) A compound according to claim 18, wherein R<sup>5</sup> is hydrogen or CF<sub>3</sub>.
- 20. (Currently amended) A compound according to claim 1, wherein  $\mathbb{R}^7$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 21. (Currently amended) A compound according to claim 1, wherein  $\mathbb{R}^8$  is selected from the group consisting of hydrogen, F, Cl, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.

Filed: February 22, 2002

22. (Original) A compound according to claim 21, wherein  $\mathbb{R}^7$  and  $\mathbb{R}^8$  are each hydrogen or optionally substituted  $\mathbb{C}_1 - \mathbb{C}_2$  alkyl.

- 23. (Currently amended) A compound according to claim 1, wherein  $R^9$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  heteroalkyl.
- 24. (Currently amended) A compound according to claim 23, wherein  $R^9$  is selected from the group consisting of hydrogen and optionally substituted  $C_1 C_4$  alkyl.
- 25. (Currently amended) A compound according to claim 1, wherein  $R^{10}$  is selected from the group consisting of hydrogen,  $S(O)R^{12}$ ,  $SO_2R^{12}$ ,  $C(O)R^{12}$ ,  $CO_2R^{12}$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  heteroalkyl.
- 26. (Currently amended) A compound according to claim 25, wherein  $R^{10}$  is selected from the group consisting of hydrogen,  $S(O)R^{12}$ ,  $SO_2R^{12}$ ,  $C(O)R^{12}$  and  $CO_2R^{12}$ .
- 27. (Currently amended) A compound according to claim 1, wherein  $R^4$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 28. (Currently amended) A compound according to claim 27, wherein  $R^4$  is selected from the group consisting of hydrogen and optionally substituted  $C_1 C_2$  alkyl.
- 29. (Currently amended) A compound according to claim 1, wherein  $R^{13}$  is selected from the group consisting of  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ ,  $CH_2CF_3$ ,  $CH_2CF_2Cl$ ,  $CH_2CCl_2F$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_3 C_6$  cycloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted  $C_2 C_6$  alkenyl, optionally substituted  $C_2 C_6$  alkynyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl; or

R<sup>6</sup> and R<sup>13</sup> taken together form a five to seven membered saturated or unsaturated heterocyclic ring.

30. (Currently amended) A compound according to claim 29, wherein  $R^{13}$  is selected from the group <u>consisting</u> of  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ ,  $CH_2CF_3$ ,  $CH_2CF_2Cl$ ,  $CH_2CCl_2F$ , optionally substituted  $C_1 - C_4$  alkyl, optionally substituted  $C_1 - C_4$  haloalkyl, optionally

Filed: February 22, 2002

substituted  $C_1 - C_4$  heteroalkyl, optionally substituted  $C_2 - C_4$  alkenyl and optionally substituted aryl; or

R<sup>6</sup> and R<sup>13</sup> taken together form a five to six membered saturated or unsaturated heterocyclic ring.

31. (Currently amended) A compound according to claim 30, wherein R<sup>13</sup> is selected from the group consisting of CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CH<sub>2</sub>CF<sub>3</sub>, CH<sub>2</sub>CF<sub>2</sub>Cl, CH<sub>2</sub>CCl<sub>2</sub>F, methyl, ethyl, propyl, isopropyl, isobutyl, cyclopropylmethyl, allyl; or

 $\ensuremath{R^6}$  and  $\ensuremath{R^{13}}$  taken together form a five membered saturated or unsaturated heterocyclic ring.

Claims 32 – 36 (Cancelled).

- 37. (Original) A compound according to claim 1, wherein m is 0 or 1.
- 38. (Original) A compound according to claim 37, wherein m is 1.
- 39. (Currently amended) A compound according to claim 1, wherein W is selected from the group consisting of NH,  $N\{R^{13}\}$ ,  $N\{C(Y)R^{11}\}$  and  $N\{SO_2R^{11}\}$ .
  - 40. (Original) A compound according to claim 39, wherein W is NH or  $N\{R^{13}\}$ .
- 41. (Currently amended) A compound according to claim 1, wherein X is selected from the group consisting of O,  $S_5$  NH and N{R<sup>11</sup>}.
  - 42. (Currently amended) A compound according to claim 41, wherein X is O or S.
  - 43. (Canceled)
  - 44. (Canceled)
- 45. (Currently amended) A compound according to claim 1, wherein Z is selected from the group consisting of NH,  $N\{R^{11}\}$  and O.
  - 46. (Original) A compound according to claim 45, wherein Z is NH or N{R<sup>11</sup>}.
  - 47. (Canceled)
  - 48. (Canceled)
  - 49. (Currently amended) A compound according to claim 1, wherein:

 $R^1$  is selected from the group <u>consisting</u> of hydrogen, F, Cl,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ , optionally substituted  $C_1 - C_4$  alkyl, optionally substituted  $C_1 - C_4$  heteroalkyl;

Filed: February 22, 2002

 $R^2$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CF<sub>2</sub>OR<sup>9</sup>, CH<sub>2</sub>OR<sup>9</sup>, OR<sup>9</sup>, S(O)<sub>n</sub>R<sup>9</sup>, optionally substituted C<sub>1</sub> – C<sub>6</sub> alkyl, optionally substituted C<sub>1</sub> – C<sub>6</sub> heteroalkyl, optionally substituted C<sub>2</sub> – C<sub>6</sub> alkynyl and optionally substituted C<sub>2</sub> – C<sub>6</sub> alkenyl;

 $R^3$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  haloalkyl, optionally substituted  $C_1 - C_6$  heteroalkyl,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ; or

R<sup>3</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring;

 $R^5$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  heteroalkyl, optionally substituted  $C_2 - C_6$  alkynyl and optionally substituted  $C_2 - C_6$  alkenyl;

 $R^6$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  haloalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_6$  alkynyl and optionally substituted  $C_2 - C_6$  alkenyl; or

 $\ensuremath{R^6}$  and  $\ensuremath{R^{13}}$  taken together form a five to seven membered saturated or unsaturated heterocyclic ring.

50. (Currently amended) A compound according to claim 49, wherein:

 $R^7$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, optionally substituted  $C_1 - C_4$  alkyl, optionally substituted  $C_1 - C_4$  haloalkyl and optionally substituted  $C_1 - C_4$  heteroalkyl;

 $R^8$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, optionally substituted  $C_1$  –  $C_4$  alkyl, optionally substituted  $C_1$  –  $C_4$  haloalkyl and optionally substituted  $C_1$  –  $C_4$  heteroalkyl; <u>and</u>

 $R^{13}$  is selected from the group <u>consisting</u> of CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CH<sub>2</sub>CF<sub>3</sub>, CH<sub>2</sub>CF<sub>2</sub>Cl, CH<sub>2</sub>CCl<sub>2</sub>F, optionally substituted C<sub>1</sub> – C<sub>6</sub> alkyl, optionally substituted C<sub>1</sub> – C<sub>6</sub> haloalkyl, optionally substituted C<sub>1</sub> – C<sub>6</sub> heteroalkyl, optionally substituted C<sub>3</sub> – C<sub>6</sub> cycloalkyl, optionally substituted C<sub>2</sub> – C<sub>6</sub> alkenyl, optionally substituted C<sub>2</sub> – C<sub>6</sub> alkynyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl; or

Applicant: Lin Zhi et al. Serial No.: 10/080,503

Ò

Filed: February 22, 2002

Attorney's Docket No.: 18202-018001 / 1082 Amendment & Response to Office Action

R<sup>6</sup> and R<sup>13</sup> taken together form a five to seven membered saturated or unsaturated heterocyclic <u>ring</u>, <del>ring</del>; and

R<sup>18</sup> is selected from the group of hydrogen, F, Cl, OR<sup>16</sup>, SR<sup>16</sup>, NR<sup>16</sup>R<sup>17</sup>, C<sub>1</sub>—C<sub>4</sub> alkyl, and optionally substituted C<sub>1</sub>—C<sub>4</sub> haloalkyl.

51. (Currently amended) A compound according to claim 50, wherein:

m is 0 or 1;

W is selected from the group consisting of NH,  $N\{R^{13}\}$ ,  $N\{C(Y)R^{11}\}$  and  $N\{SO_2R^{11}\}$ ;

X is selected from the group consisting of O, S, NH and  $N\{R^{11}\}$ ;

Y is O or S; and

Z is selected from the group consisting of NH,  $N\{R^{11}\}$  and O.

Claims 52 - 55 (Cancelled).

56. (Currently amended) A compound according to claim 1, wherein said compound is selected from the group consisting of:

(3R)-2,3,4,7-Tetrahydro-3-methyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3R)-2,3,4,7-Tetrahydro-3,4-dimethyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3R)-4-Ethyl-2,3,4,7-tetrahydro-3-methyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3*R*)-2,3,4,7-Tetrahydro-3-methyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(3R)-2,3,4,7-Tetrahydro-3-methyl-4-propyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3R)-4-Allyl-2,3,4,7-tetrahydro-3-methyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3R)-3-Ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-3-Ethyl-2,3,4,7-tetrahydro-4-methyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3R)-3,4-Diethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

Filed: February 22, 2002

(3*R*)-3-Ethyl-2,3,4,7-tetrahydro-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

- (3R)-4-(2-Chloro-2,2-difluoroethyl)-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;
- (3R)-4-(2,2-Difluoroethyl)-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;
- (3R)-3-Ethyl-2,3,4,7-tetrahydro-4-propyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;
- (3R)-4-Allyl-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;
- (3R)-3-Ethyl-2,3,4,7-tetrahydro-4-isobutyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;
- (3R/S)-2,3,4,7-Tetrahydro-3-propyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;
- (3R/S)-2,3,4,7-Tetrahydro-4-methyl-3-propyl-10-(trifluoromethyl)-8H-[1,4]oxazino-[2,3-f]quinolin-8-one;
- (3R/S)-4-Ethyl-2,3,4,7-tetrahydro-3-propyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;
- (3R/S)-2,3,4,7-Tetrahydro-3-propyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;
- (3R)-2,3,4,7-Tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;
- (3*R*)-2,3,4,7-Tetrahydro-3-isopropyl-4-methyl-10-(trifluoromethyl)-8*H*-[1,4]oxazino-[2,3-*f*]quinolin-8-one;
- (3R)-4-Ethyl-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino-[2,3-f]quinolin-8-one;
- (3*R*)-2,3,4,7-Tetrahydro-3-isopropyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;
- (3R)-4-(2-Chloro-2,2-difluoroethyl)-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;
- (3*R*)-4-(2,2-Difluoroethyl)-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

Filed: February 22, 2002

(3R)-4-Allyl-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino-[2,3-f]quinolin-8-one;

(3R)-2,3,4,7-Tetrahydro-3-phenyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(3*R*)-2,3,4,7-Tetrahydro-3-phenyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(3R)-4-Cyclopropylmethyl-2,3,4,7-tetrahydro-3-phenyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-3-Benzyl-2,3,4,7-tetrahydro-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

2,3,4,7-Tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

2,3,4,7-tetrahydro-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]-quinolin-8-one;

(7aR, 10aS)-7,7a,8,9,10,10a-Hexahydro-1-(trifluoromethyl)-7-(2,2,2-trifluoroethyl)-4H-cyclopenta[5,6][1,4]oxazino[2,3-f]quinolin-3-one;

(7aR, 10aS)-7-Ethyl-7,7a,8,9,10,10a-hexahydro-1-(trifluoromethyl)-4H-cyclopenta-[5,6][1,4]oxazino[2,3-f]quinolin-3-one;

(7aR,10aS)-7,7a,8,9,10,10a-Hexahydro-3-isopropoxy-1-(trifluoromethyl)-7-(2,2,2-trifluoroethyl)-4*H*-cyclopenta[5,6][1,4]oxazino[2,3-*f*]quinolin-3-one;

 $(\pm)$ -(2S,3R)-2,3,4,7-Tetrahydro-2,3-dimethyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(6aR)-6a,7,8,9-Tetrahydro-4-(trifluoromethyl)-1H,6H-pyrrolo[1',2':4,5][1,4]-oxazino[2,3-f]quinolin-2-one\_;

2,3,4,7-Tetrahydro-2,2,4-trimethyl-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]-quinolin-8-one;

(3R)-8-Chloro-3-ethyl-3,4-dihydro-8-isopropoxy-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-2H-[1,4]oxazino[2,3-f]quinoline;

(3R) -3-Ethyl-3,4-dihydro-8-isopropoxy-8-methoxy-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-2H-[1,4]oxazino[2,3-f]quinoline;

(±)-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(-)-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

Filed: February 22, 2002

ā

(+)-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(±)-2,3,4,7-Tetrahydro-3-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-

[1,4]oxazino[2,3-f]quinolin-8-one;

 $(\pm)$ -2,3,4,7-Tetrahydro-4-methyl-3-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4](2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-(2,2)-trifluoroethyl)-10-(2,3)-(2,2)-(2

( $\pm$ )-4-Ethyl-2,3,4,7-tetrahydro-3-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

 $(\pm)$ -2,3,4,7-Tetrahydro-3,4-bis(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(-)-2,3,4,7-Tetrahydro-3,4-bis(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(+)-2,3,4,7-Tetrahydro-3,4-bis(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(±)-4-Cyclopropylmethyl-2,3,4,7-tetrahydro-3-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(3R)-4-Cyclopropylmethyl-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-4-(2-Chloroethyl)-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

 $(\pm)$ -2,3,4,7-Tetrahydro-2-methyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-3-Ethyl-4-(2-hydroxy-2-methylpropyl)-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one; and

(3R)-2,3,4,7-Tetrahydro-3-isobutyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one; and

a pharmaceutically acceptable salt thereof.

57. (Currently amended) A compound according to claim 1, wherein said compound is selected from the group consisting of:

(3R)-2,3,4,7-Tetrahydro-3-methyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-3-Ethyl-2,3,4,7-tetrahydro-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

Filed: February 22, 2002

(3R)-4-(2-Chloro-2,2-difluoroethyl)-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-4-(2,2-Difluoroethyl)-3-ethyl-2,3,4,7-tetrahydro-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-2,3,4,7-Tetrahydro-3-isopropyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-4-(2-Chloro-2,2-difluoroethyl)-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(3R)-4-(2,2-Difluoroethyl)-2,3,4,7-tetrahydro-3-isopropyl-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

(7aR, 10aS)-7-Ethyl-7,7a,8,9,10,10a-hexahydro-1-(trifluoromethyl)-4H-cyclopenta[5,6][1,4]oxazino[2,3-f]quinolin-3-one;

(7aR,10aS)-7,7a,8,9,10,10a-Hexahydro-1-(trifluoromethyl)-7-(2,2,2-trifluoroethyl)-4H-cyclopenta[5,6][1,4]oxazino[2,3-f]quinolin-3-one;

 $(\pm)$ -(2S,3R)-2,3,4,7-Tetrahydro-2,3-dimethyl-4-(2,2,2-trifluoroethyl)-10-(trifluoromethyl)-8H-[1,4]oxazino[2,3-f]quinolin-8-one;

( $\pm$ )-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(-)-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one;

(+)-2,3,4,7-Tetrahydro-4-(2,2,2-trifluoroethyl)-3,10-bis(trifluoromethyl)-8*H*-[1,4]oxazino[2,3-*f*]quinolin-8-one; and

a pharmaceutically acceptable salt thereof.

58. (Currently amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of formula:

Attorney's Docket No.: 18202-018001 / 1082
Amendment & Response to Office Action

Applicant: Lin Zhi et al.
Serial No.: 10/080,503
Filed: February 22, 2002

 $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{7}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$   $R^{18}$ 

wherein:

 $R^1$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, NO<sub>2</sub>, OR<sup>9</sup>, NR<sup>10</sup>R<sup>11</sup>,  $S(O)_nR^9$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl;

 $R^2$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CF<sub>2</sub>OR<sup>9</sup>, CH<sub>2</sub>OR<sup>9</sup>, OR<sup>9</sup>, S(O)<sub>n</sub>R<sup>9</sup>, NR<sup>10</sup>R<sup>11</sup>, optionally substituted C<sub>1</sub> – C<sub>8</sub> alkyl,

Filed: February 22, 2002

Ò

optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl;

 $R^3$  and  $R^4$  each independently is selected from the group <u>consisting</u> of hydrogen,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$ ,  $C(Y)NR^{10}R^{11}$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl; or

R<sup>3</sup> and R<sup>4</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic or heterocyclic ring; or

R<sup>3</sup> and R<sup>5</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

R<sup>3</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

R<sup>3</sup> and R<sup>13</sup> taken together form a three to eight membered saturated or unsaturated heterocyclic ring;

 $R^5$  and  $R^6$  each independently are selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_8$  alkynyl and optionally substituted  $C_2 - C_8$  alkenyl; or

R<sup>5</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring; or

 ${
m R}^{
m 5}$  and  ${
m R}^{
m 13}$  taken together form a three to eight membered saturated or unsaturated heterocyclic ring; or

R<sup>6</sup> and R<sup>13</sup> taken together form a three to eight membered saturated or unsaturated heterocyclic ring;

 $R^7$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  optionally substituted heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ;

Filed: February 22, 2002

 $R^8$  is selected from the group <u>consisting</u> of hydrogen, F, Cl, Br, I, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl,  $OR^9$ ,  $S(O)_nR^9$ ,  $NR^{10}R^{11}$ ,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ;

 $R^9$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl and optionally substituted arylalkyl;

 $R^{10}$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl,  $CO_2R^{12}$ ,  $C(O)R^{12}$ ,  $SO_2R^{12}$  and  $S(O)R^{12}$ ;

 $R^{11}$  and  $R^{12}$  each independently is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted aryl, optionally substituted heteroaryl and optionally substituted arylalkyl;

 $R^{13}$  is selected from the group <u>consisting</u> of optionally substituted  $C_1 - C_8$  alkyl, optionally substituted  $C_1 - C_8$  haloalkyl, optionally substituted  $C_1 - C_8$  heteroalkyl, optionally substituted  $C_2 - C_8$  alkenyl, optionally substituted  $C_2 - C_8$  alkynyl, optionally substituted  $C_3 - C_8$  cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl;

 $R^{16}$  is selected from the group of hydrogen, optionally substituted  $C_1$ — $C_8$  alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl, optionally substituted  $C_1$ — $C_8$  heteroalkyl,  $COR^{17}$ ,  $CO_2R^{17}$  and  $CONR^{12}R^{17}$ ;

 $R^{17}$ -is selected from the group of hydrogen, optionally substituted  $C_1$ — $C_8$  alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl and optionally substituted  $C_1$ — $C_8$  heteroalkyl;

 $R^{18}$  is selected from the group of hydrogen, F, Br, Cl, I, CN,  $C_1$ — $C_8$  alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl, ,  $OR^{16}$ ,  $NR^{16}R^{17}$ ,  $SR^{16}$ ,  $CH_2R^{16}$ ,  $SOR^{17}$  and  $SO_2R^{17}$ ;

 $R^{19}$ -is selected from the group of hydrogen, optionally substituted  $C_1$ — $C_8$ -alkyl, optionally substituted  $C_1$ — $C_8$  haloalkyl, optionally substituted  $C_1$ — $C_8$  heteroalkyl, optionally substituted  $C_2$ — $C_8$ -alkenyl, optionally substituted  $C_2$ — $C_8$ -alkynyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl;

Filed: February 22, 2002

m is selected from the group consisting of 0, 1 and 2;

n is selected from the group consisting of 0, 1 and 2;

V is selected from the group of O and S;

W is selected from the group consisting of  $\Theta$ ,  $S(O)_n$ , NH,  $N\{R^{13}\}$ ,  $N\{C(Y)R^{11}\}$  and  $N\{SO_2R^{11}\}$ ;

X and Z each independently is selected from the group consisting of O,  $S(O)_{n\bar{r}}$  NH,  $N\{R^{11}\}$ ,  $N\{C(Y)R^{11}\}$ ,  $N\{SO_2R^{12}\}$  and  $N\{S(O)R^{12}\}$ ; and

Y is selected from the group of O, S,  $N\{R^{19}\}$  and  $N\{OR^{19}\}$ ; and pharmaceutically acceptable salts thereof.

- 59. (Original) A pharmaceutical composition according to claim 58, wherein said composition is suitable for enteral, parenteral, suppository or topical administration.
- 60. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^1$  is selected from the group <u>consisting</u> of hydrogen, F, Cl,  $OR^9$ ,  $NR^{10}R^{11}$ ,  $S(O)_nR^9$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 61. (Currently amended) A pharmaceutical composition comprising a compound according to claim 1, wherein  $R^2$  is selected from the group consisting of hydrogen, F, Cl, Br, I, CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CF<sub>2</sub>OR<sup>9</sup>, CH<sub>2</sub>OR<sup>9</sup>, OR<sup>9</sup>, S(O)<sub>n</sub>R<sup>9</sup>, optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted  $C_2 C_6$  alkynyl and optionally substituted  $C_2 C_6$  alkenyl.
- 62. (Currently amended) A pharmaceutical composition according to claim 59, wherein

 $R^1$  is selected from the group <u>consisting</u> of hydrogen, F and optionally substituted  $C_1$  –  $C_4$  alkyl; and

 $R^2$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1-C_2$  alkyl, optionally substituted  $C_1-C_2$  haloalkyl and optionally substituted  $C_1-C_2$  heteroalkyl.

63. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^3$  is selected from the group consisting of hydrogen, optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  haloalkyl, optionally substituted  $C_1 - C_6$  heteroalkyl,  $C(Y)OR^{11}$  and  $C(Y)NR^{10}R^{11}$ ; or

R<sup>3</sup> and R<sup>6</sup> taken together form a three to eight membered saturated or unsaturated carbocyclic ring.

Filed: February 22, 2002

64. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^6$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  heteroalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted  $C_2 - C_6$  alkynyl and optionally substituted  $C_2 - C_6$  alkenyl.

- 65. (Currently amended) A pharmaceutical composition according to claim 64, wherein  $R^6$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl, optionally substituted  $C_1 C_4$  heteroalkyl, optionally substituted  $C_2 C_4$  alkynyl and optionally substituted  $C_2 C_4$  alkenyl.
- 66. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^5$  is selected from the group <u>consisting</u> of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl, optionally substituted  $C_1 C_6$  heteroalkyl, optionally substituted  $C_2 C_6$  alkynyl and optionally substituted  $C_2 C_6$  alkenyl.
- 67. (Currently amended) A pharmaceutical composition according to claim 66, wherein  $R^5$  is selected from the group consisting of hydrogen,  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ , optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  heteroalkyl.
- 68. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^7$  and  $R^8$  each independently is selected from the group consisting of hydrogen, F, Cl, optionally substituted  $C_1 C_4$  alkyl, optionally substituted  $C_1 C_4$  haloalkyl and optionally substituted  $C_1 C_4$  heteroalkyl.
- 69. (Currently amended) A pharmaceutical composition according to claim 58, wherein
- $R^9$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1-C_6$  alkyl, optionally substituted  $C_1-C_6$  haloalkyl, and optionally substituted  $C_1-C_6$  heteroalkyl; and
- $R^{10}$  is selected from the group <u>consisting</u> of hydrogen,  $S(O)R^{12}$ ,  $SO_2R^{12}$ ,  $C(O)R^{12}$ ,  $CO_2R^{12}$ , optionally substituted  $C_1 C_6$  alkyl, optionally substituted  $C_1 C_6$  haloalkyl and optionally substituted  $C_1 C_6$  heteroalkyl.

Filed: February 22, 2002

îı

70. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^4$  is selected from the group <u>consisting</u> of hydrogen, optionally substituted  $C_1 - C_4$  alkyl, optionally substituted  $C_1 - C_4$  haloalkyl and optionally substituted  $C_1 - C_4$  heteroalkyl.

71. (Currently amended) A pharmaceutical composition according to claim 58, wherein  $R^{13}$  is selected from the group consisting of  $CF_3$ ,  $CF_2Cl$ ,  $CF_2H$ ,  $CFH_2$ ,  $CH_2CF_3$ ,  $CH_2CF_2Cl$ ,  $CH_2CCl_2F$ , optionally substituted  $C_1 - C_6$  alkyl, optionally substituted  $C_1 - C_6$  haloalkyl, optionally substituted  $C_1 - C_6$  heteroalkyl, optionally substituted  $C_2 - C_6$  alkenyl, optionally substituted  $C_3 - C_6$  cycloalkyl, optionally substituted aryl, optionally substituted arylalkyl and optionally substituted heteroarylalkyl; or

R<sup>6</sup> and R<sup>13</sup> taken together form a five to seven membered saturated or unsaturated heterocyclic ring.

72. (Currently amended) A pharmaceutical composition according to claim 71, wherein R<sup>13</sup> is selected from the group consisting of CF<sub>3</sub>, CF<sub>2</sub>Cl, CF<sub>2</sub>H, CFH<sub>2</sub>, CH<sub>2</sub>CF<sub>3</sub>, CH<sub>2</sub>CF<sub>2</sub>Cl, CH<sub>2</sub>CCl<sub>2</sub>F, methyl, ethyl, propyl, isopropyl, isobutyl, cyclopropylmethyl, and allyl; or

 $R^6$  and  $R^{13}$  taken together form a five membered saturated or unsaturated heterocyclic ring.

- 73. (Canceled)
- 74. (Canceled)
- 75. (Original) A pharmaceutical composition according to claim 58, wherein m is 0 or 1.
- 76. (Currently amended) A pharmaceutical composition according to claim 58, wherein

W is selected from the group consisting of NH,  $N\{R^{13}\}$ ,  $N\{C(Y)R^{11}\}$  and  $N\{SO_2R^{11}\}$ ; and

X is selected from the group consisting of O,  $S_7$ , NH and N  $\{R^{11}\}$ .

77. (Currently amended) A pharmaceutical composition according to claim 58, wherein Y is O or S; and

Z is selected from the group consisting of NH,  $N\{R^{11}\}$  and O.

Claims 78 – 107 (Cancelled).